

What is claimed is:

1. An optical disk apparatus for recording information onto an optical disk, comprising:

a laser diode configured to emit a laser light therefrom,
5 to be irradiated upon a recording surface of the optical disk;

a rotation driver configured to rotationally drive the optical disk;

a monitor device, being position in vicinity of said laser diode, configured to monitor the laser light emitted from said
10 laser diode; and

a controller means configured to detect an abnormal condition of said laser diode, through time-sequential comparison of an intensity of the laser light emitted from said laser diode when the apparatus performs a recording operation, which is
15 detected by said monitor device, and configured to control a rotating velocity of the optical disk by said rotation driver, depending upon detection of said abnormal condition.

2. The optical disk apparatus as described in the claim 1, wherein said controller detects the abnormal condition of said
20 laser diode, by using a linear characteristic between driving current or voltage and a light emitting output thereof.

3. The optical disk apparatus as described in the claim 1, wherein said controller reduces the rotation velocity of the optical disk when detecting said abnormal condition.

25 4. The optical disk apparatus as described in the claim 1, further comprises at least a memory configured to memorize an intensity of the laser light, which is emitted from said laser diode when conducting the recording operation, wherein said controller detects the abnormal condition of said laser diode,
30 by comparing a present laser light intensity, which is detected

by said monitor device, and a previous laser light intensity, which is memorized in said memory.

5 5. The optical disk apparatus as described in the claim 1, wherein said controller controls said rotation velocity, further by detecting the rotation velocity of the optical disk driven by said rotation driver, thereby to determine if said rotation velocity can be lowered or not thereupon.

10 6. The optical disk apparatus as described in the claim 5, wherein said controller stops the rotation of said optical disk driven by said rotation driver, when determining that said rotation velocity cannot be lowered.

7. The optical disk apparatus as described in the claim 1, wherein said optical disk apparatus is a thin-type having a size from 12.7 mm to 9.5 mm in thickness thereof.

15 8. A control method of an optical disk apparatus for recording information onto an optical disk, comprising the following steps of:

20 detecting an abnormal condition of a laser diode, through time-sequential comparison of an intensity of the laser light emitted from said laser diode when the apparatus performs a recording operation, which is detected by a monitor driver, disposed in vicinity of said laser diode, configured to monitor the laser light emitted from said laser diode; and

25 controlling a rotating velocity of the optical disk, depending upon detection of said abnormal condition.

30 9. The control method of the optical disk apparatus, as described in the claim 8, wherein the abnormal condition of said laser diode is detected, by using a linear characteristic between the driving current or voltage and the light emitting out of said laser diode.

10. The control method of the optical disk apparatus, as

described in the claim 8, wherein the rotation velocity of the optical disk is lowered when detecting said abnormal condition.

11. The control method of the optical disk apparatus, as described in the claim 8, wherein the abnormal condition of said
5 laser diode is detected, by comparing a present laser light intensity, which is detected by said monitor driver, and a previous laser light intensity, which is memorized in a memory.

12. The control method of the optical disk apparatus, as described in the claim 8, further detecting the rotation velocity
10 of the optical disk, thereby to determine on whether said rotation velocity can be lowered or not, said rotation velocity of the optical disk is lowered if determining that it can be lowered, and it is stopped if determine to be impossible, on the other hand.